



September 12, 2007

Mr. Mike Gandy
SC DHEC
2600 Bull Street
Columbia, South Carolina 29201

Re: SC DHEC ChemNuc GW
Work Order: 193360

Dear Mr. Gandy:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 10, 2007. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4422.

Sincerely,



Jake Crook
Project Manager

Purchase Order: 605965
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

DHEC002 SC DHEC PO# 605965

Client SDG: 193360 GEL Work Order: 193360

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

ND The analyte concentration is not detected above the detection limit.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by



List of current GEL Certifications as of 12 September 2007

State	Certification
Alaska	UST-062
Arizona	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California	01151CA
Colorado	GenEngLabs
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA	WG-15J
Florida/NELAP	E87156
Georgia	E87156 (FL/NELAP)
Hawaii	N/A
Idaho	N/A
Illinois	200029
Indiana	C-SC-01
Kansas	E-10332
Kentucky	90129
Louisiana	03046
Maryland	270
Massachusetts	M-SC012
Michigan	9903
Nevada	SC12
New Jersey	SC002
New Mexico	FL NELAP E87156
New York	11501
North Carolina	233
North Carolina Drinking W	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania	68-00485
South Carolina	10120001/10585001/10120002
Tennessee	02934
Texas NELAP	T104704235-07-TX
U.S. Dept. of Agriculture	S-52597
US Army Corps of Engineer	N/A
Utah	8037697376 GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

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Certificate of Analysis

Company : SC DHEC
Address : 2600 Bull Street
Columbia, South Carolina 29201

Report Date: September 12, 2007

Contact: Mr. Mike Gandy
Project: SC DHEC ChemNuc GW

Client Sample ID: 090707–43
Sample ID: 193360001
Matrix: Ground Water
Collect Date: 07–SEP–07 15:20
Receive Date: 10–SEP–07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-323	574	700	pCi/L		BXF1	09/11/07	1747	681879	1
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The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	EPA 906.0 Modified		

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Certificate of Analysis

Company : SC DHEC
Address : 2600 Bull Street
Columbia, South Carolina 29201

Report Date: September 12, 2007

Contact: Mr. Mike Gandy
Project: SC DHEC ChemNuc GW

Client Sample ID: 090707–44
Sample ID: 193360002
Matrix: Ground Water
Collect Date: 07–SEP–07 15:30
Receive Date: 10–SEP–07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-347	574	700	pCi/L		BXF1	09/11/07	1803	681879	1
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The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	EPA 906.0 Modified		

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QC Summary

Report Date: September 12, 2007

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SC DHEC
2600 Bull Street
Columbia, South Carolina

Contact: Mr. Mike Gandy

Workorder: 193360

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	681879										
QC1201414904	193360001	DUP									
Tritium		U	91.1	U	107	pCi/L	0		N/A	BXF1	09/11/07 18:36
			+/-323		+/-326						
QC1201414906	LCS										
Tritium	2590				2210	pCi/L	86	(75%-125%)			09/11/07 19:09
					+/-479						
QC1201414903	MB										
Tritium				U	184	pCi/L					09/11/07 18:20
					+/-334						
QC1201414905	193360001	MS									
Tritium	2590	U	91.1		2640	pCi/L	102	(75%-125%)			09/11/07 18:52
			+/-323		+/-505						

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

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QC Summary

Workorder: 193360

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Client: DHEC		SDG/ARCOC/Work Order: 193360	
Received By: TG		Date Received: 09/007	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		/	Maximum Counts Observed*: 40
Classified Radioactive II by RSO?		/	
COC/Samples marked containing PCBs?		/	
Shipped as a DOT Hazardous?		/	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		/	

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/			Circle Applicable: damaged container leaking container other (describe) seals broken
2	Samples requiring cold preservation within (4 +/- 2 C)?		/		Preservation Method: blue ice dry ice <u>none</u> other (describe) ice bags 24 Card box & Bubble wrap
3	Chain of custody documents included with shipment?	/			
4	Sample containers intact and sealed?	/			Circle Applicable: damaged container leaking container other (describe) seals broken
5	Samples requiring chemical preservation at proper pH?		/		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		/		Sample ID's and containers affected:
7	Are Encore containers present?		/		(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	/			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	/			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	/			Sample ID's affected:
11	Number of containers received match number indicated on COC?	/			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	/			

Comments:

Courier

No non conformance reports were generated for this work order